

PROJECT DESCRIPTION  
GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF STONEY RUN ROAD AT NEW RIDGE ROAD/ CORPORATE CENTER DRIVE IN ANNE ARUNDEL COUNTY. STONEY RUN RD IS CONSIDERED TO RUN IN AN EAST/WEST DIRECTION.

THE NORTH LEG (CORPORATE CENTER DR) IS BEING ADDED TO THE INTERSECTION. PEDESTRIAN CROSSINGS ARE BEING ADDED TO THE NORTH AND WEST LEGS. EXISTING PEDESTRIAN SIGNAL HEADS ARE BEING REMOVED FROM THE WEST LEG. THE PUSHBUTTONS ON THE WEST LEG ARE TO REMAIN.

INTERSECTION OPERATION

THE EXISTING CABINET/ CONTROLLER SHALL BE UTILIZED AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THERE IS AN EXISTING EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE WESTBOUND MOVEMENT OF STONEY RUN RD WITH A RIGHT TURN OVERLAP FOR NB NEW RIDGE RD. THE STONEY RUN RD THROUGH MOVEMENTS OPERATE CONCURRENTLY. THERE WILL BE AN EXCLUSIVE/PERMISSIVE LEFT TURN PHASE FOR THE SOUTHBOUND MOVEMENT OF CORPORATE CENTER DR. THE NEW RIDGE RD/ CORPORATE CENTER DR THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN MOVEMENT ACROSS THE WEST LEG OF THE INTERSECTION. THE PEDESTRIAN MOVEMENT HAS BUTTONS ONLY WITH NO PEDESTRIAN SIGNAL HEADS.

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

SPECIAL NOTES

PROJECT CONTACTS:

MS. KIMBERLY TRAN, ASSISTANT DISTRICT ENGINEER – TRAFFIC  
PHONE: (410) 841-1019  
MR. JAMES FOLDEN, ASSISTANT DISTRICT ENGINEER – CONSTRUCTION  
PHONE: (410) 841-1031  
MR. JOHN MAYS, ASSISTANT DISTRICT ENGINEER – MAINTENANCE  
PHONE: (410) 841-1013  
MR. JOE HORTY(ACTING), UTILITY ENGINEER  
PHONE: (410) 841-1040  
MR. EDWARD RODENHIZER, SIGNAL OPERATIONS  
PHONE: (410)-787-7652

2. ALL INTERNAL CABINET WIRING SHALL BE PERFORMED BY THE SHA SIGNAL SHOP.  
CONTRACTOR SHALL CONTACT ED RODENHIZER 72 HOURS PRIOR TO CONSTRUCTION.

EQUIPMENT LIST

- A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

NONE.

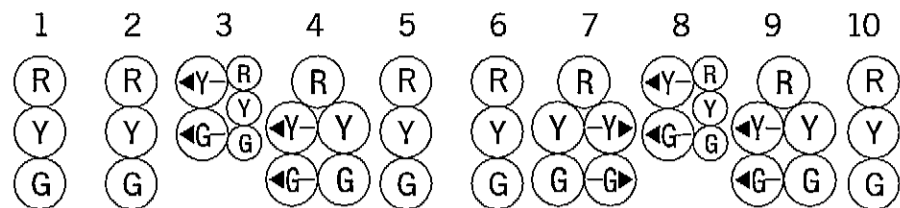
- B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

QUANTITY	UNITS	DESCRIPTION
LUMP SUM	LS	MAINTENANCE OF TRAFFIC (TO INCLUDE POLICE CONTROL DURING CONSTRUCTION)
LUMP SUM	LS	MOBILIZATION
2	EA	NON-INVASIVE PROBE (SET OF 3) WITH 500 FT. LEAD-IN CABLE
2	EA	9 IN. X 12 IN. R10-3(d) PEDESTRIAN PUSHBUTTON SIGN
2	EA	16 IN. X VAR. (DUAL FACE) D-3(2) SIGN – MAST ARM
6	EA	HANDHOLE
225	LF	SAWCUT FOR SIGNAL LOOP DETECTOR
860	LF	LOOP DETECTOR WIRE ENCASED IN FLEXIBLE TUBING
300	LF	2-CONDUCTOR (ALUMINUM SHIELDED) CABLE
10	LF	1 IN. LIQUID TIGHT FLEXIBLE CONDUIT FOR DETECTOR SLEEVE
130	LF	3 IN. PVC CONDUIT [SCHEDULE 80] – TRENCHED
35	LF	3 IN. PVC CONDUIT [SCHEDULE 80] – SLOTTED
25	LF	4 IN. PVC CONDUIT [SCHEDULE 80] – TRENCHED
2	EA	GROUND ROD – 3/4 IN. X 10 FT. LENGTH
350	LF	12 IN. WHITE THERMOPLASTIC PAVEMENT MARKING – CROSSWALK
90	LF	24 IN. WHITE THERMOPLASTIC PAVEMENT MARKING – STOP LINE
2	EA	NEMA LOAD SWITCH
1	EA	RACK MOUNTED LOOP DETECTOR AMPLIFIER
2	EA	REPLACE EXISTING SIGN – MAST
1	EA	REMOVE EXISTING SIGN – MAST
LUMP SUM	LS	RELOCATE EXISITNG SIGNAL CABLE (APPROX. 6x190 LF MAX DISTANCE)
LUMP SUM	LS	REMOVE EXISTING SIGNAL EQUIPMENT
LUMP SUM	LS	[CONTINGENT] INSTALL ELBOW IN EXISTING POLE BASE

- C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

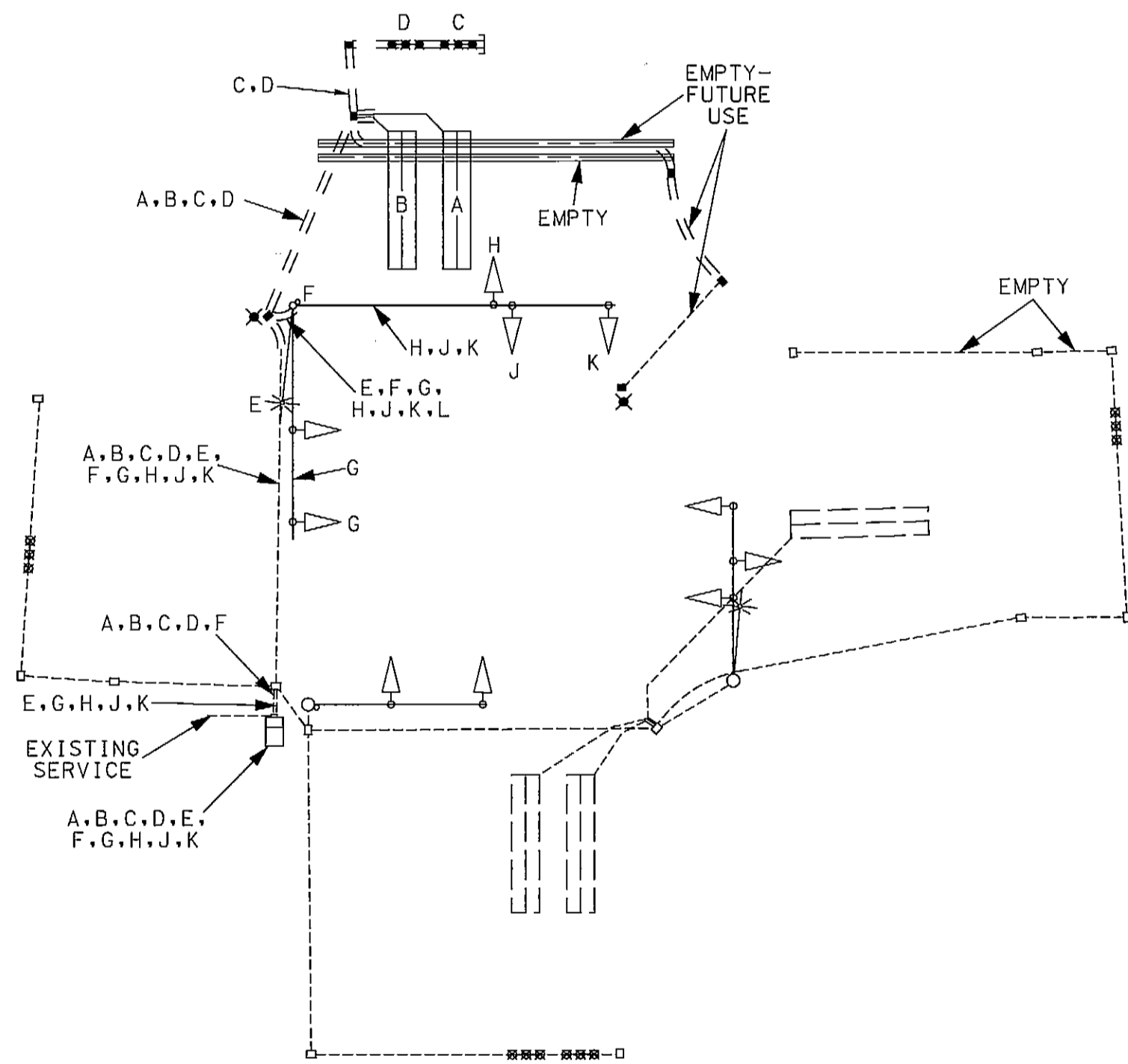
QUANTITY	UNITS	DESCRIPTION
2	EA	12 IN. PEDESTRIAN SIGNAL HEAD

## Phase Chart



PHASE 2 AND 5	R	R	←GG	←GG	G	R	R/G→	R	R	R	←
5 CHANGE	R	R	←YG	←YG	G	R	R/Y→	R	R	R	←
PHASE 2 AND 6	G	G	G	G	G	R	R	R	R	R	←
2 AND 6 CHANGE	Y	Y	Y	Y	Y	R	R	R	R	R	←
PHASE 4 AND 7	R	R	R	R	R	R	R	←GG	←GG	G	←
7 CHANGE	R	R	R	R	R	R	R	←YG	←YG	G	←
PHASE 4 AND 8	R	R	R	R	R	G	G	R	G	G	←
4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	←
PHASE ALT 4 AND 8	R	R	R	R	R	G	G	G	G	G	←
PED CLEARANCE	R	R	R	R	R	G	G	G	G	G	←
ALT 4 AND 8 CHANGE	R	R	R	R	R	Y	Y	Y	Y	Y	←
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	←

## Wiring Diagram



KEY

- A } 2-CONDUCTOR CABLE  
B } (ALUMINUM SHIELDED)  
  
C } NON-INVASIVE MICRO-LOOP  
D } DETECTOR LEAD-IN CABLE  
  
E } EXISTING  
2-CONDUCTOR TRAY CABLE  
(NO. 12 A.W.G.)  
  
F } EXISTING  
2-CONDUCTOR ELECTRICAL  
CABLE (NO. 14 A.W.G.)  
  
G } EXISTING  
H } 7-CONDUCTOR ELECTRICAL  
J } CABLE (NO. 14 A.W.G.)  
K }  
  
L } EXISTING  
BARE COPPER GROUND  
WIRE (NO. 6 A.W.G.)  
  
X } PROPOSED GROUNDING ROD



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

STONEY RUN ROAD AT  
NEW RIDGE ROAD/CORPORATE CENTER DRIVE

### GENERAL INFORMATION PLAN

SCALE NA DATE SEPTEMBER 17, 2009 CONTRACT NO. BW996M82

DESIGNED BY J. STORCK COUNTY ANNE ARUNDEL

DRAWN BY J. STORCK LOGMILE

CHECKED BY  TMS NO.

F.A.P. NO. NA TOD NO.

TS NO. 4277 A DRAWING **GI-01** OF 01 SHEET NO. 2 OF 2

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The Traffic Group, Inc.  
Suite H  
9900 Franklin Square Drive  
Baltimore, Maryland 21236  
410-931-6600  
1-800-583-8411  
Fax 410-931-6601  
"Merging Innovation and Excellence"®

BY: JStorck